



Pedestrian and Bicycle Master Plan Update

Task Force Meeting #1

June 11, 2012

Sugar Land Pedestrian and Bicycle Master Plan
Transportation and Long-Range Planning





THE BENEFITS OF BICYCLING



WHO RIDES?





BIKE LANES IN SUGAR LAND



ELKINS



MAIN STREET



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BIKE LANES



Source: www.pedbikeimages.org / Dan Burden

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Bike Lane Pros and Cons

- Quick to Implement
- Predictable Interaction with Traffic
- Very Low Cost
- Widely implemented across the U.S.
- Closer proximity to traffic
- Less comfortable to inexperienced cyclists



COMFORT or BUFFERED BIKE LANES



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Comfort or Buffered Bike Lanes - Pros and Cons

- Significant Buffering from Traffic
- More comfortable for broader range of cyclists
- Quick to Implement
- Predictable Interaction with Traffic
- Low Cost
- Increasingly popular design across U.S
- Requires more cross-sectional space
- More complex design





CYCLE TRACK



calmstreetsboston.blogspot.com, Vassar street cycle track - Cambridge, MA, 2010 April 18

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One-way Cycle Tracks - Pros and Cons

- Significant Buffering from Traffic
- Even more comfortable for broader range of cyclists
- Increasing interest across U.S
- Requires more cross-sectional space
- Limited to applications with few driveways
- Very complex design for driveways
- Significant Construction
- Higher Cost
- Potential for Wrong-way Riding



CYCLETRACK



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Shared Pathways (a.k.a. Side paths) - Pros and Cons

- Significant Buffering from Traffic
- Most comfortable for broad range of users (bicyclists and pedestrians)
- Most aesthetically pleasing
- Very popular throughout U.S.
- Requires additional space
- Limited to applications with few driveways
- Very complex design for driveways
- Significant Construction
- Highest Cost

SHARED-USE PATH IN SUGAR LAND (OFF-STREET)



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SIDEWALKS AS BICYCLE FACILITY



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SHARED-USE PATH (OFF-STREET)



Austin Blvd Utility Easement Trail, Sugar Land

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TRAFFIC CALMING: MINI TRAFFIC CIRCLE



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EXISTING “STREET TRAILS” IN SUGAR LAND



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SHARED LANE MARKINGS



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AFTER



AFTER



AFTER



AFTER



AFTER



MAJOR BARRIERS – US 59



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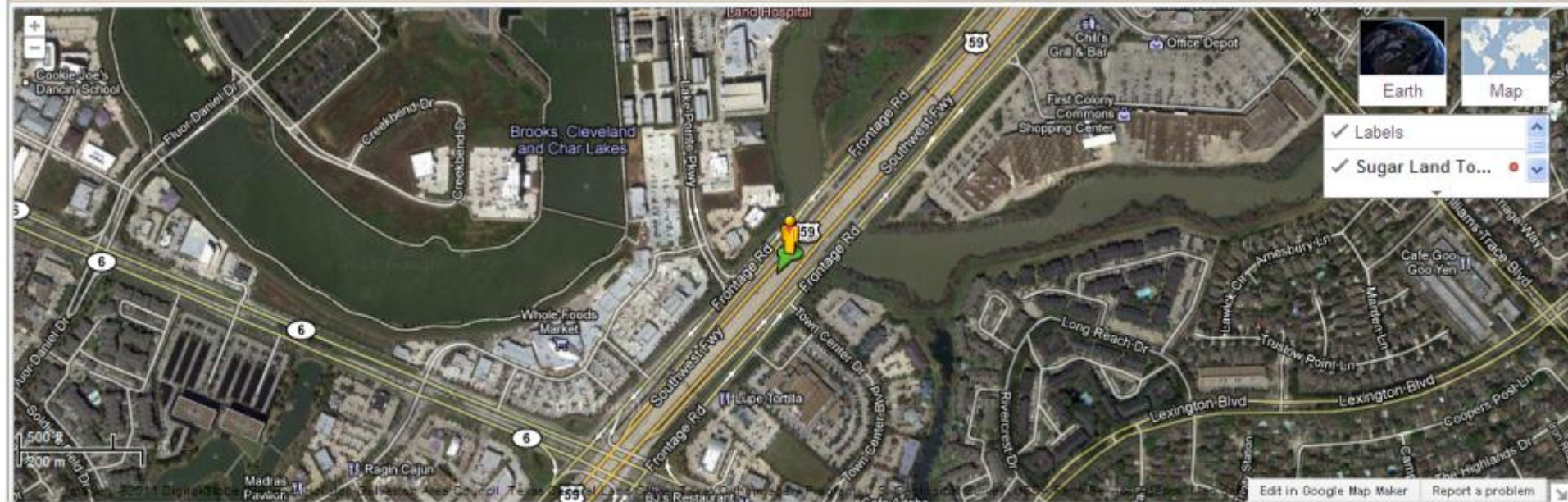


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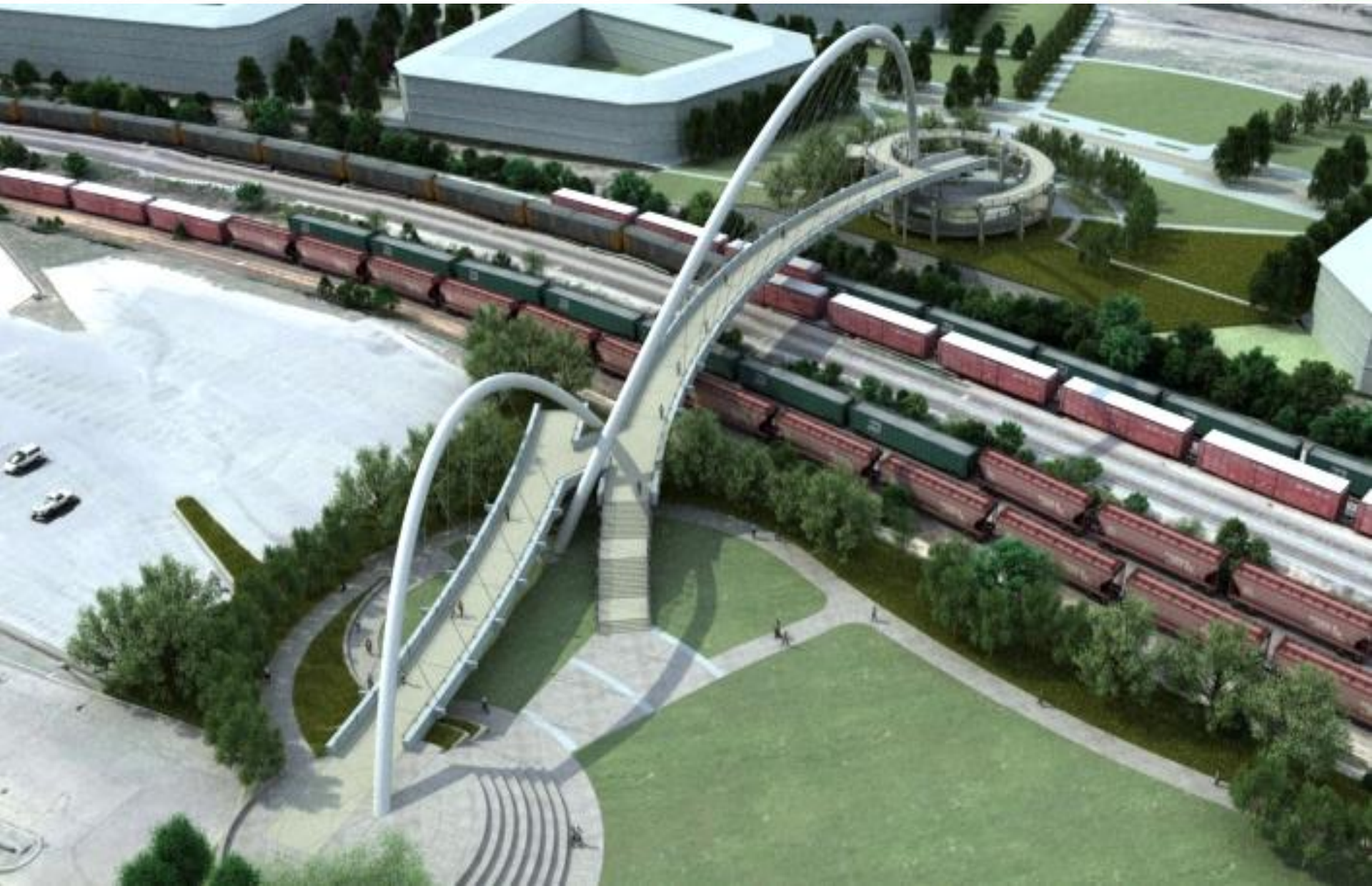
POTENTIAL BARRIER SOLUTIONS



POTENTIAL BARRIER SOLUTIONS



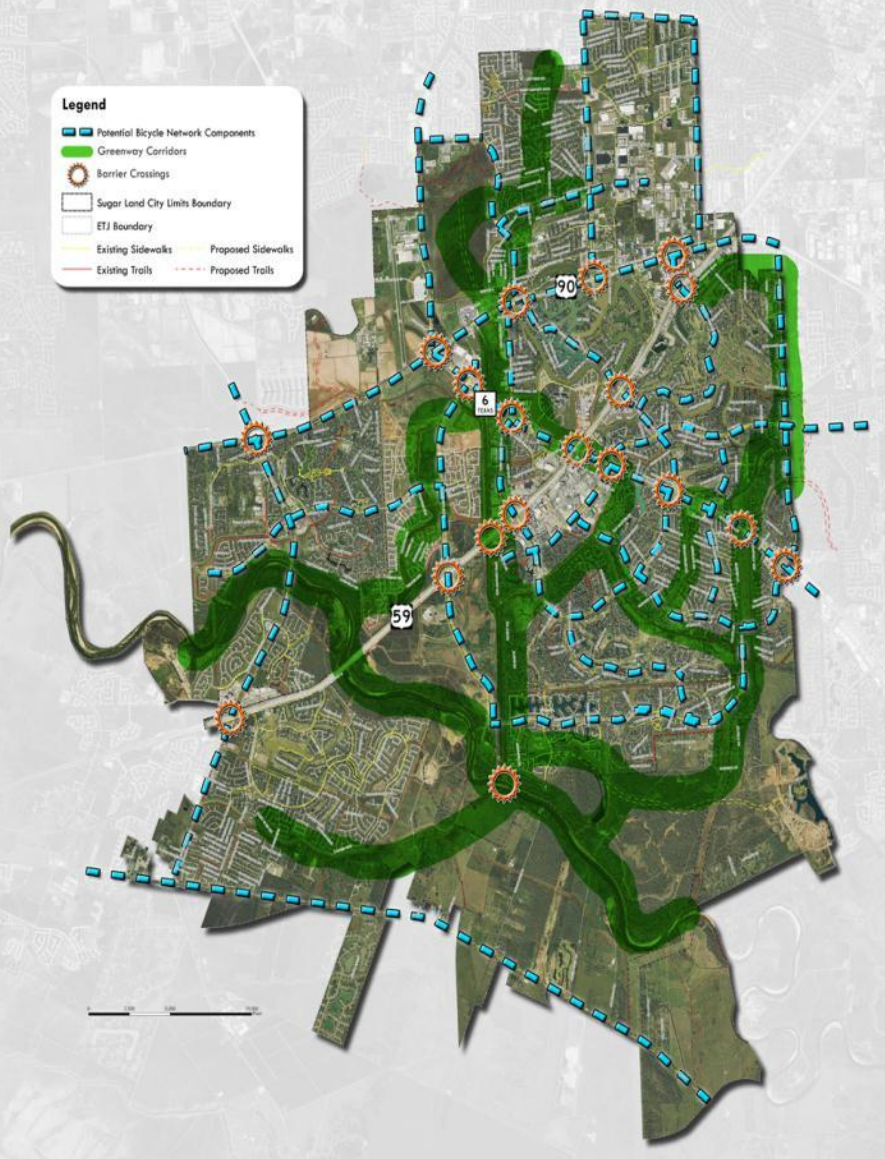
POTENTIAL BARRIER SOLUTIONS



POTENTIAL BARRIER SOLUTIONS



ULTIMATE GOAL: Achievable, Affordable, and Well-Used Facilities



recreation bike-friendly travel



EXISTING TRAILS AND BICYCLE FACILITIES